

The diagram illustrates a hybrid satellite-cable television system architecture. At the top left, a tall antenna tower is shown with a bell-shaped radiation pattern and two arrows pointing away from it, labeled "Program Channel (Transmission in UHF TV Spectrum)". Below the tower is a box labeled "TRANSMISSION SUBSYSTEM" with a handwritten "20" next to it. To the right, a row of four houses is depicted, each with a vertical pole and a horizontal line extending from it, labeled "Return Channel (Telephone Lines)". Below the houses is a box labeled "Subscribers" with a handwritten "30" next to it. In the center, a box labeled "PROGRAM SUBSYSTEM" (with a handwritten "10" to its left) receives three inputs: "Programming and Data" (labeled "18" with a handwritten "12" next to it), "Satellite-delivered programming" (labeled "12" with a satellite dish icon), and "Local TV programming (microwave or cable)" (labeled "14"). The "PROGRAM SUBSYSTEM" is connected to a "TRANSMISSION SUBSYSTEM" box (labeled "20") via a double-headed arrow. The "PROGRAM SUBSYSTEM" is also connected to a "RETURN PATH FACILITY" box (labeled "50" with a handwritten "52" next to it) via a "Broadband Circuit" (labeled "52"). The "RETURN PATH FACILITY" is connected to a "TELEPHONE SERVICE PROVIDER" box (labeled "45") via a double-headed arrow (labeled "48"). The "TELEPHONE SERVICE PROVIDER" is connected to the "Subscribers" box (labeled "30") via a line (labeled "40"). The "RETURN PATH FACILITY" has three output lines labeled "49A", "49B", and "49N" with an ellipsis between "49B" and "49N".

Fig. 1

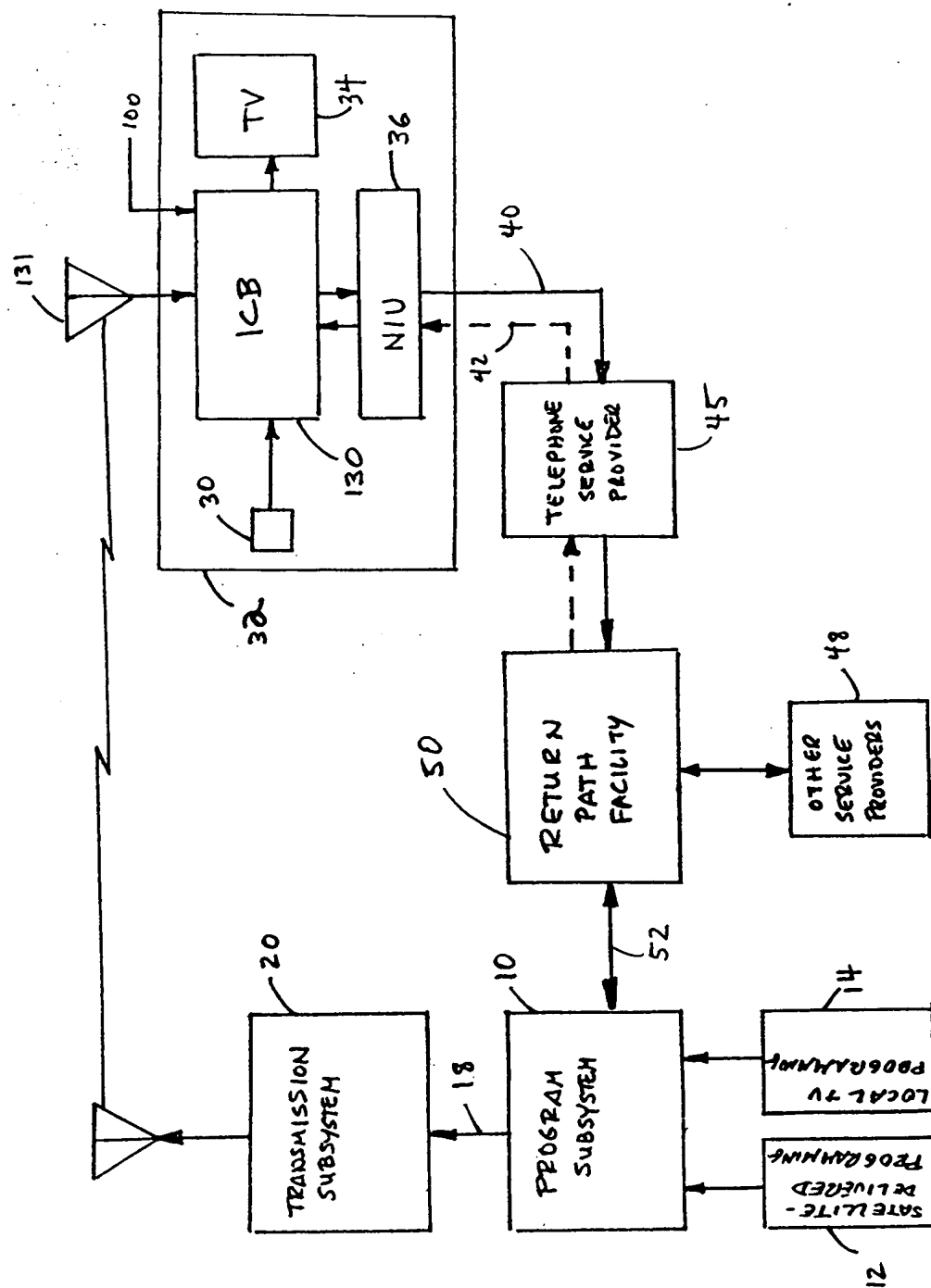


Fig. 2

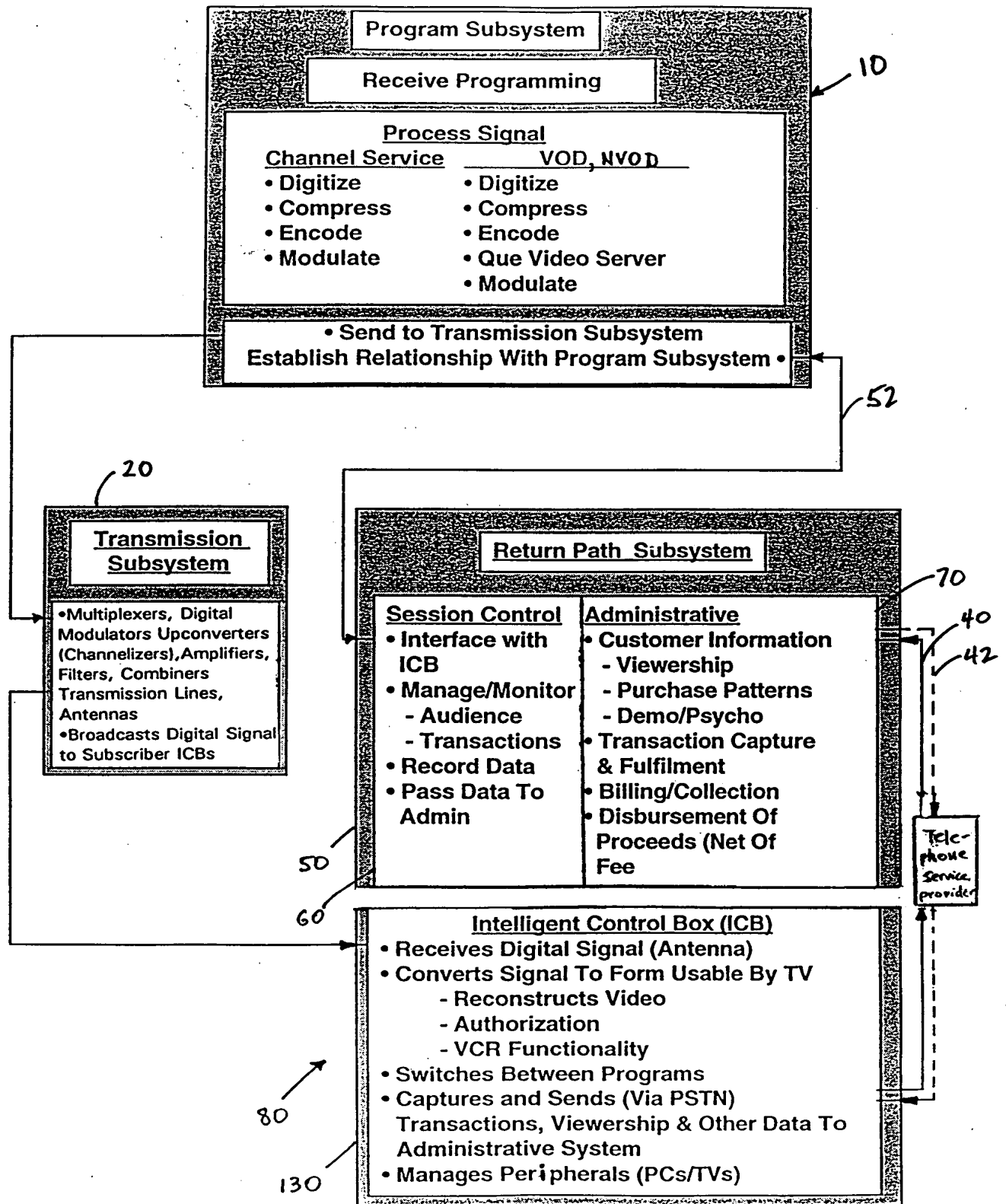


Fig. 3

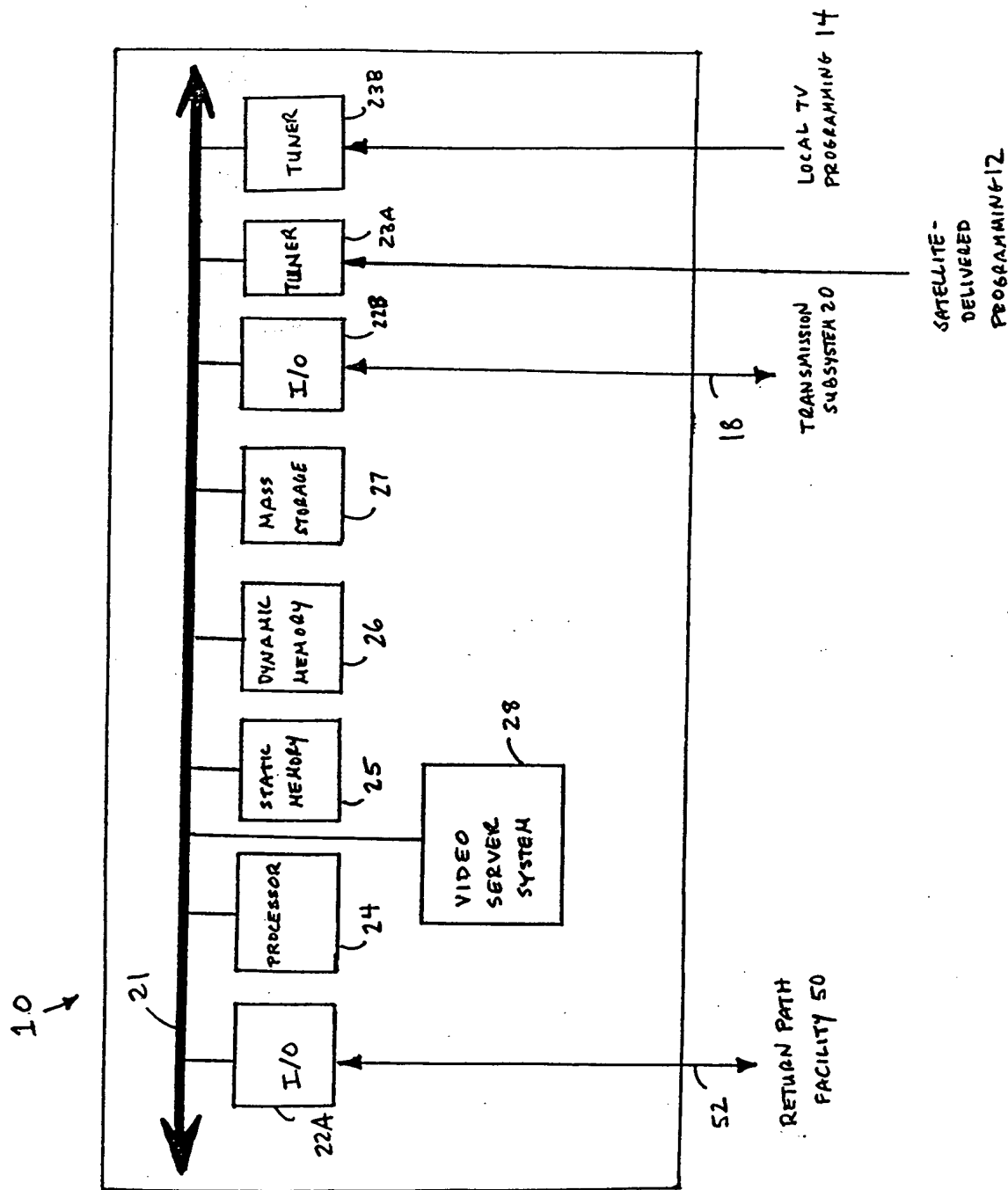


Fig. 4

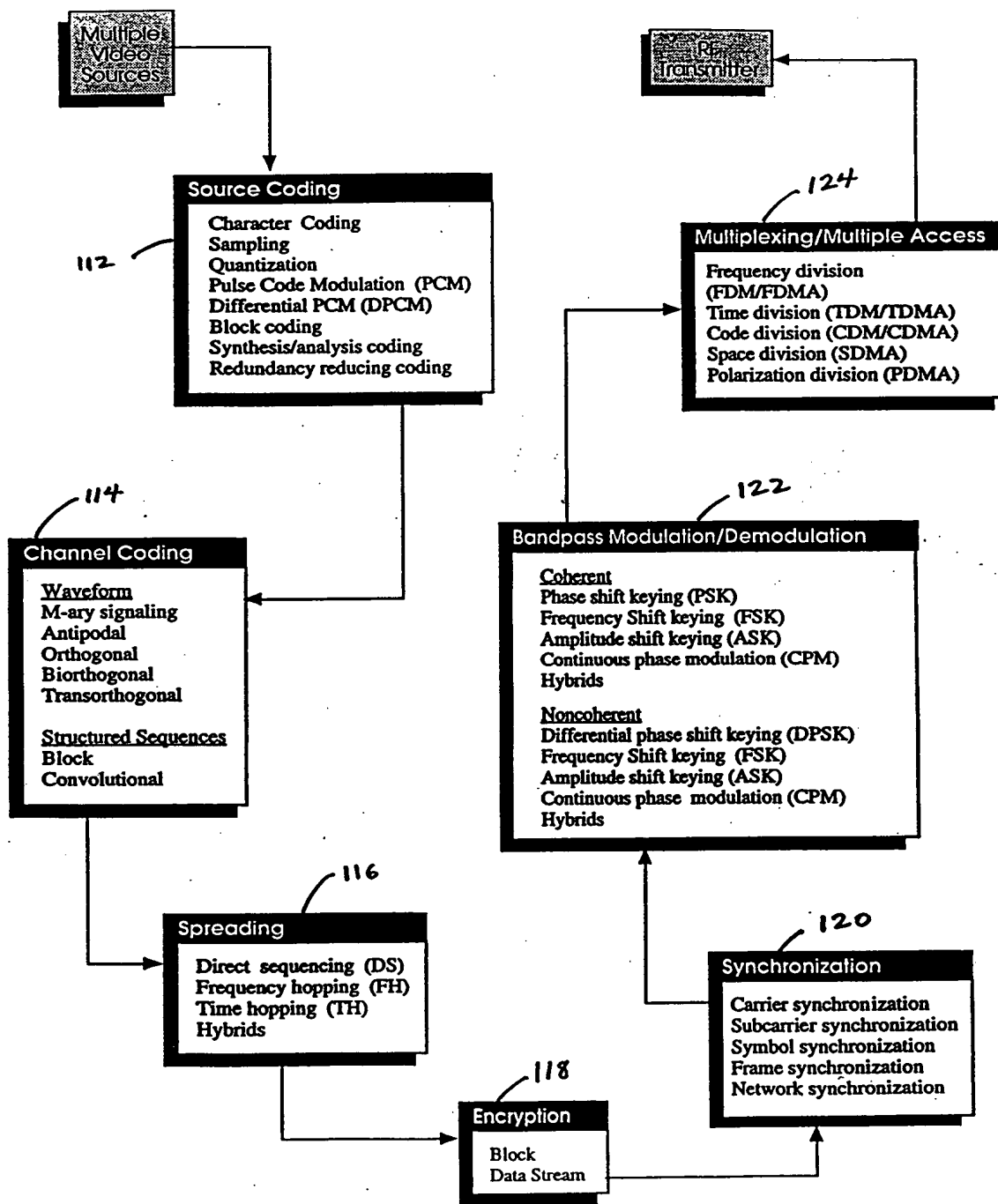


Fig. 5

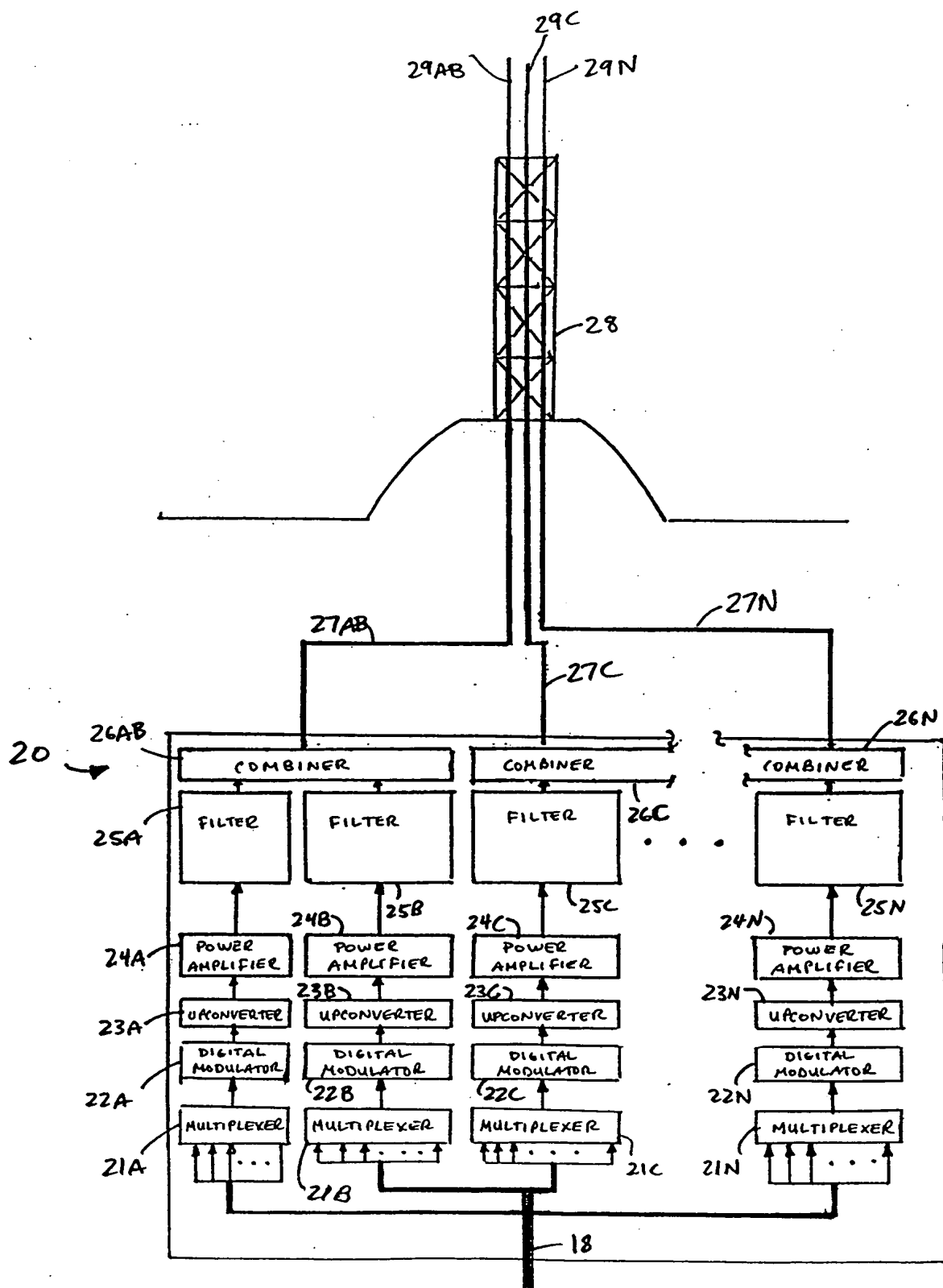
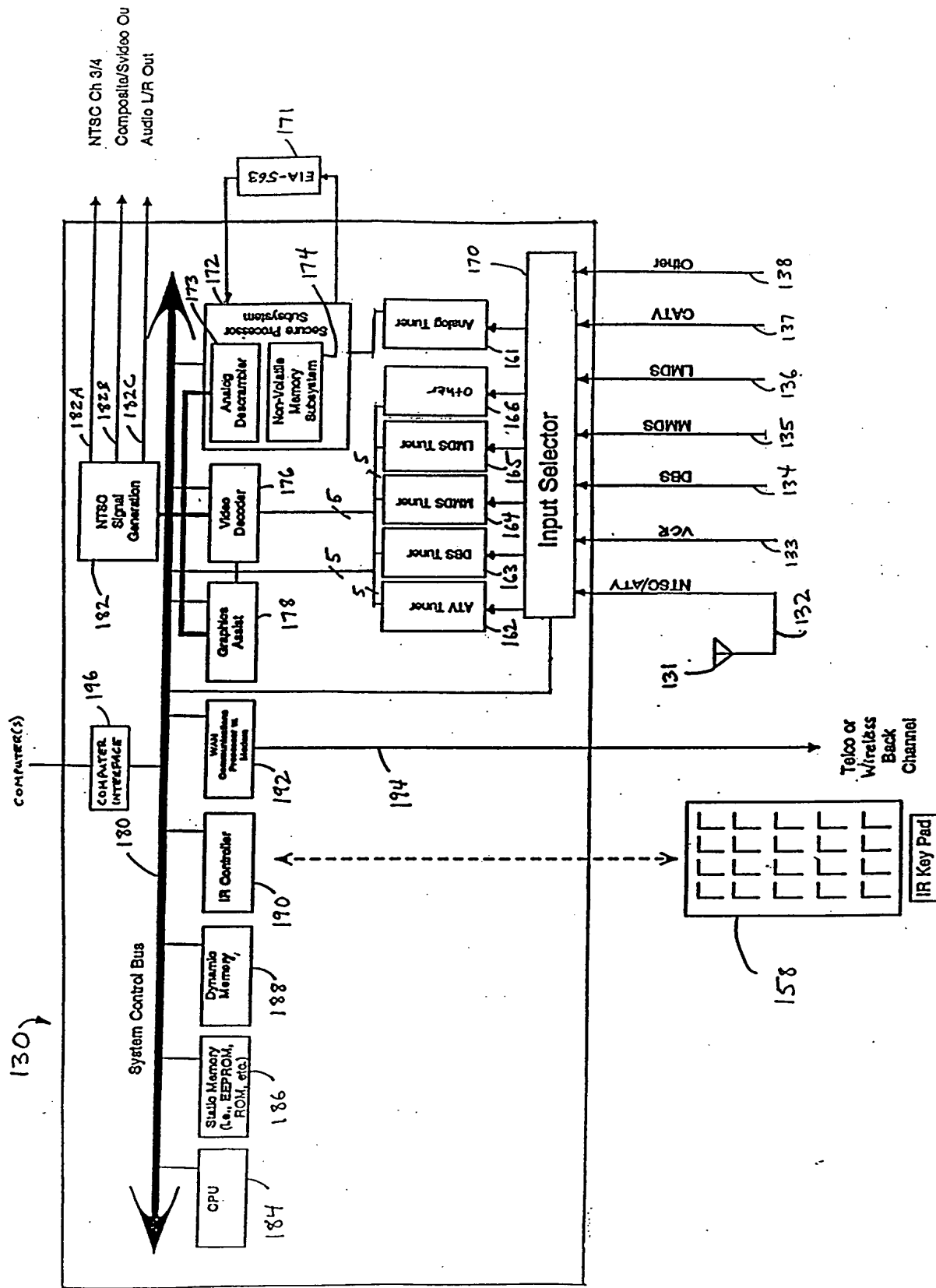


Fig. 6



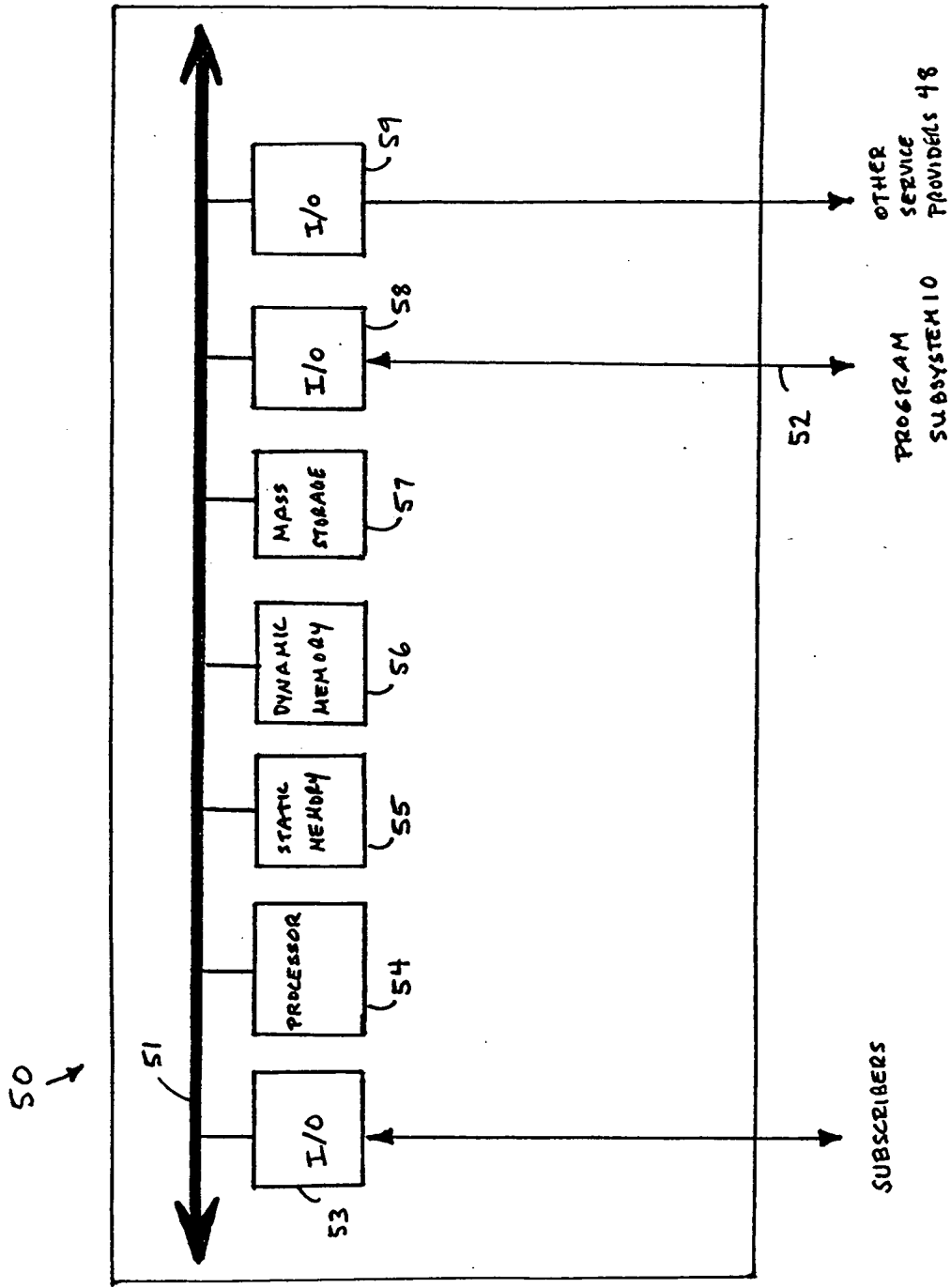


Fig. 8



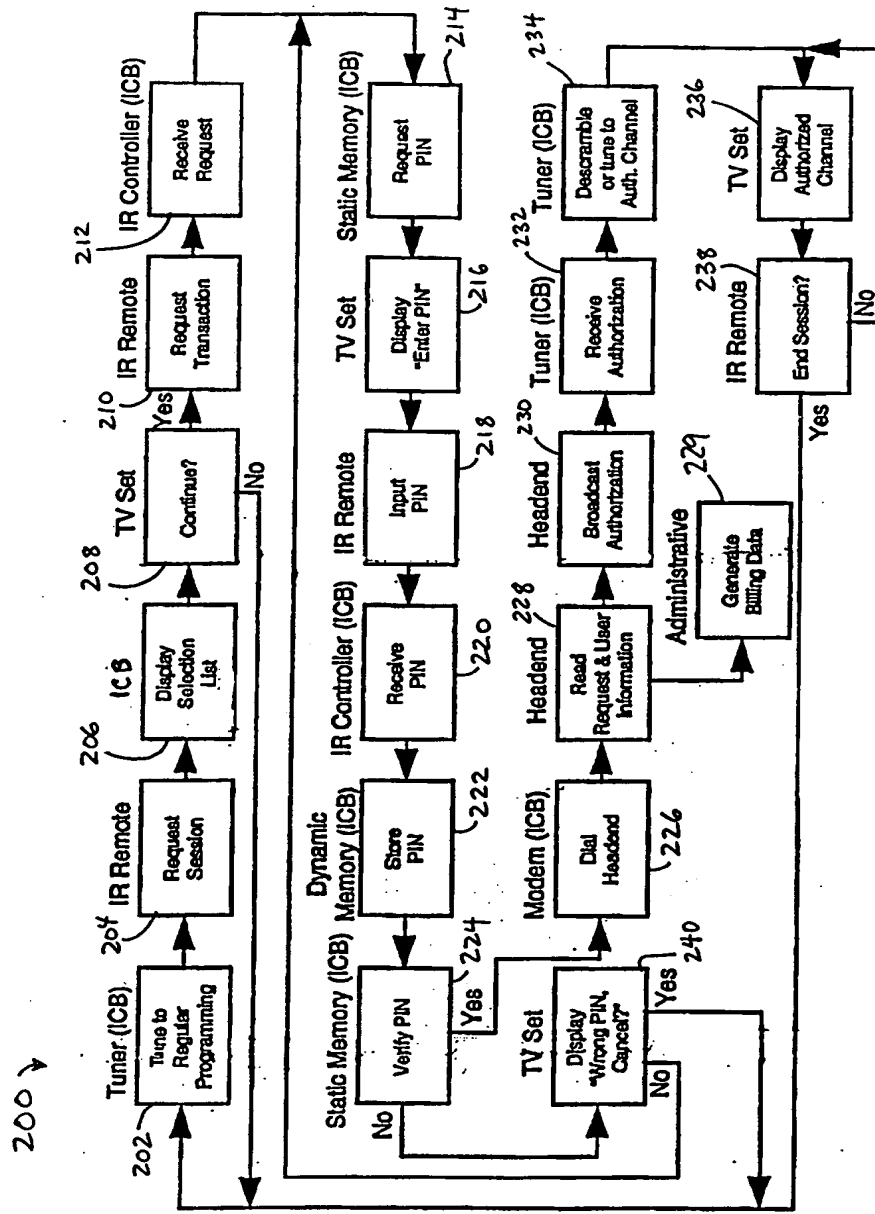


Fig. 9